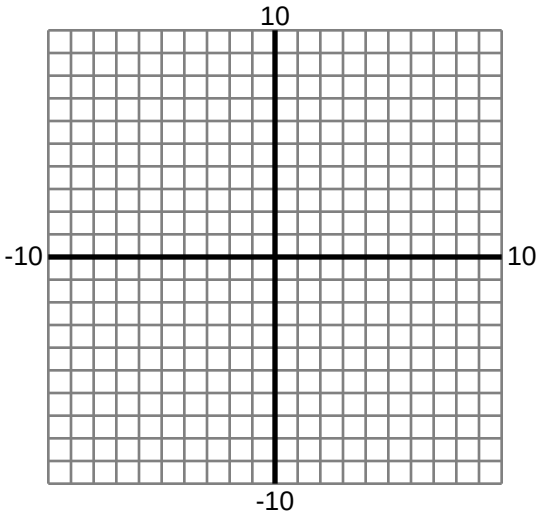
Name : _____ Score : _____

Teacher : _____ Date : _____

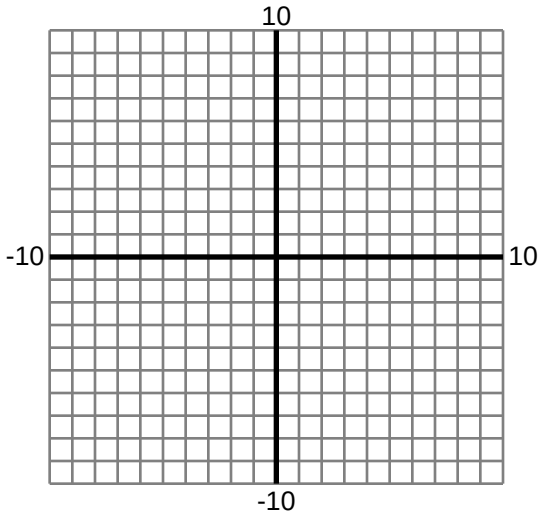
Limits at Infinity

Graph the function and find the limit. Round to two decimals if necessary.

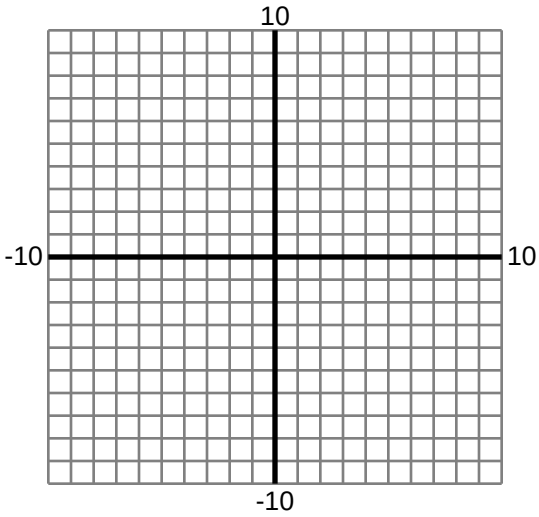
1) $\lim_{x \to -\infty} x + 1$



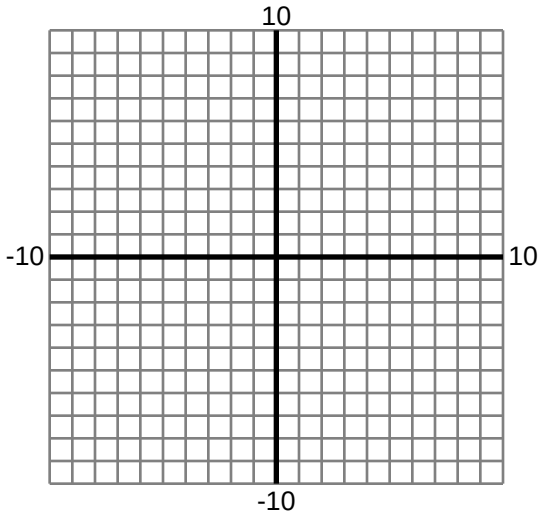
2) $\lim_{x \to -\infty} \frac{2x^2 - x - 3}{5x^2 - 2x - 2}$



3) $\lim_{x \to \infty} 2\ln(3x - 2)$



4) $\lim_{x \to \infty} \frac{5x^3 + 5x^2 - 1}{3x}$



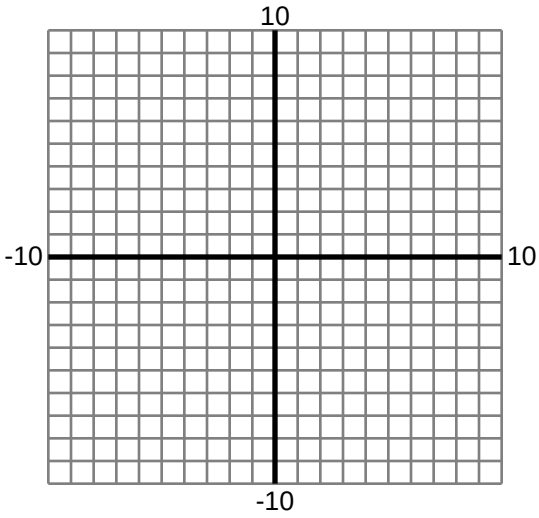
Name : _____ Score : _____

Teacher : _____ Date : _____

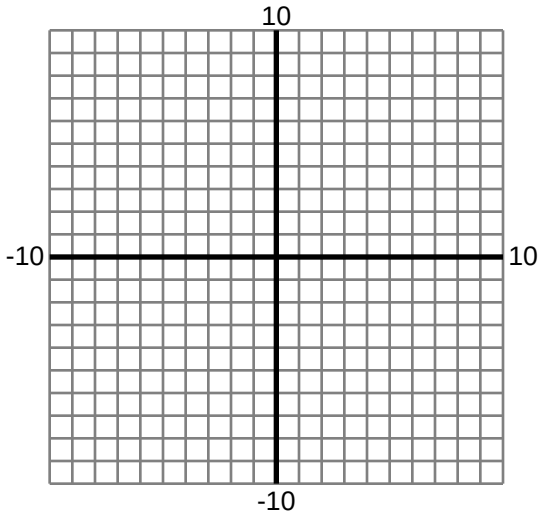
Limits at Infinity

Graph the function and find the limit. Round to two decimals if necessary.

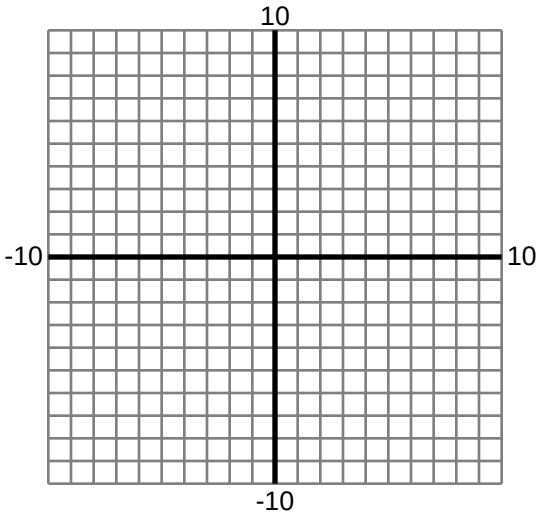
5) $\lim_{x \to -\infty} \ln(3x + 3)$



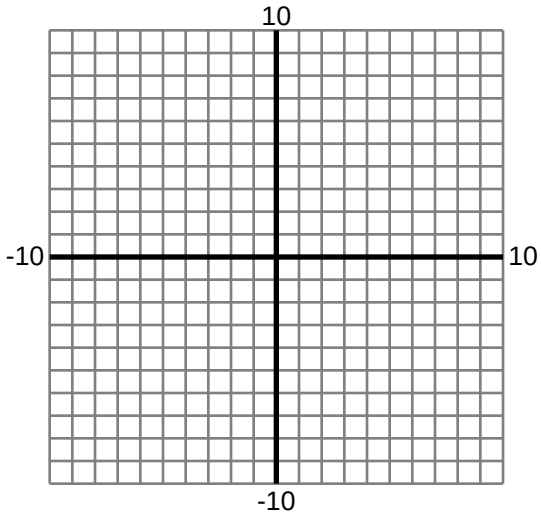
6) $\lim_{x \to -\infty} 5x^2 - x - 2$



7) $\lim_{x \to \infty} x^2 - 5x$



8) $\lim_{x \to \infty} -3\ln(2x - 1)$



Name : _____ Score : _____

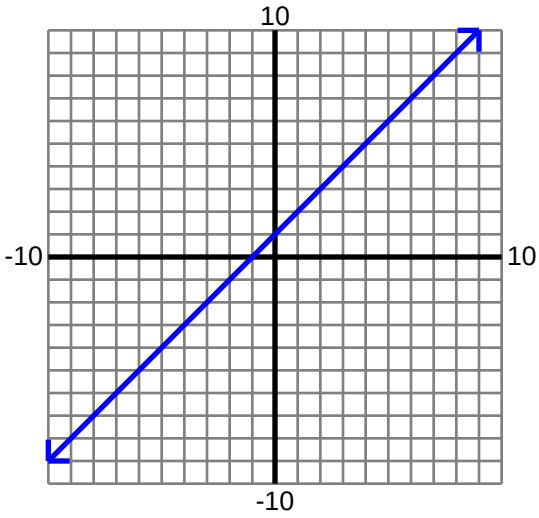
Teacher : _____ Date : _____

Limits at Infinity

Graph the function and find the limit. Round to two decimals if necessary.

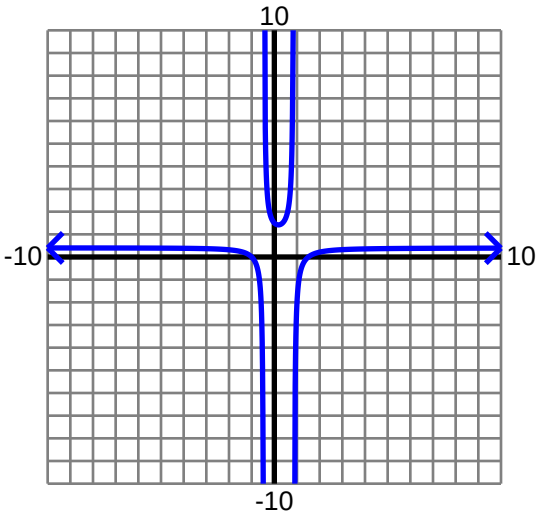
1) $\lim_{x \to -\infty} x + 1$

$-\infty$



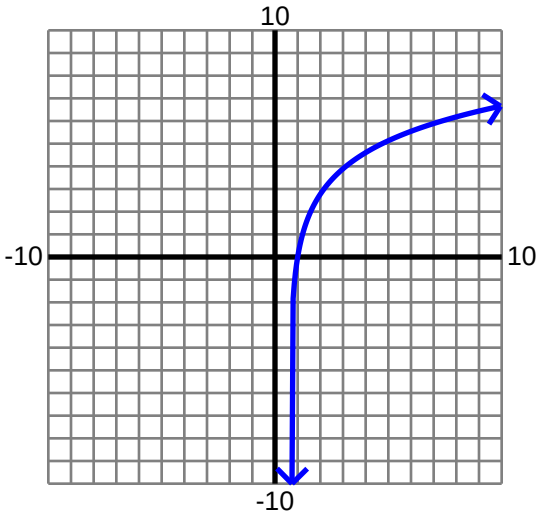
2) $\lim_{x \to -\infty} \frac{2x^2 - x - 3}{5x^2 - 2x - 2}$

$\frac{2}{5}$



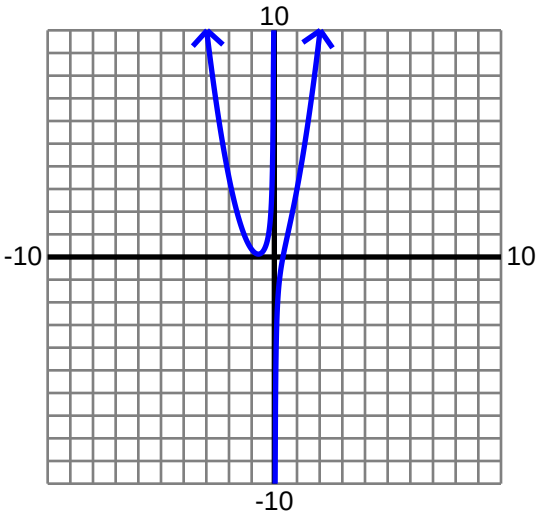
3) $\lim_{x \to \infty} 2\ln(3x - 2)$

∞



4) $\lim_{x \to \infty} \frac{5x^3 + 5x^2 - 1}{3x}$

∞



Name : _____ Score : _____

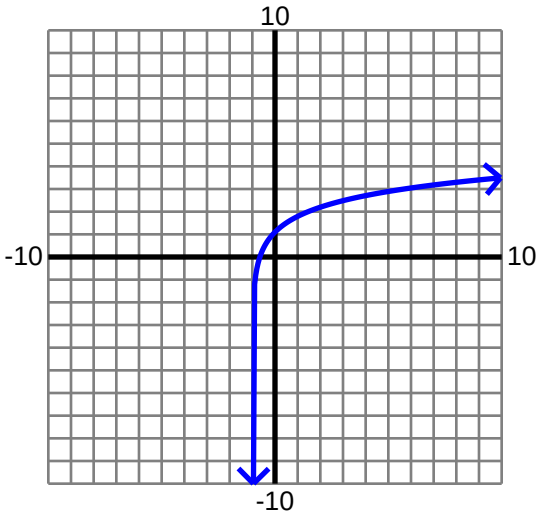
Teacher : _____ Date : _____

Limits at Infinity

Graph the function and find the limit. Round to two decimals if necessary.

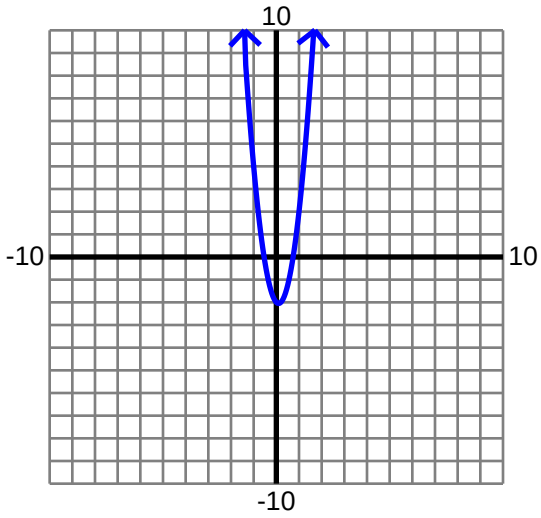
5) $\lim_{x \to -\infty} \ln(3x + 3)$

Does not exist



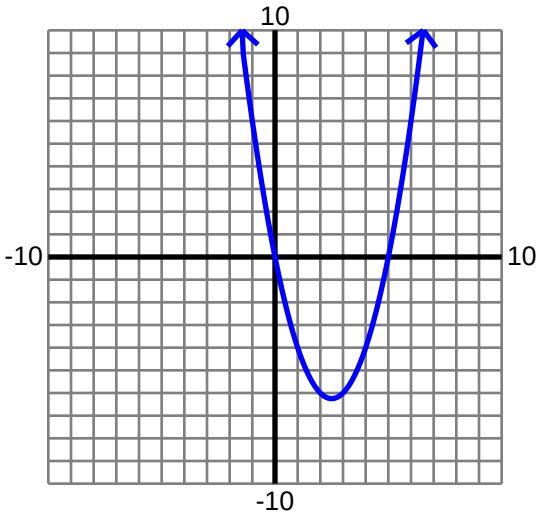
6) $\lim_{x \to -\infty} 5x^2 - x - 2$

∞



7) $\lim_{x \to \infty} x^2 - 5x$

∞



8) $\lim_{x \to \infty} -3\ln(2x - 1)$

-∞